

U.S.S.N. 10/086,509
Atty. Docket No. PURP01/0010

Page 2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A modular cushioned insole support system intended for use ~~in connection with footwear,~~ within the interior of footwear to support a human foot having a forefoot and a heel, the system comprising:

a) a heel piece having a thickness underlying said heel and an upper and lower surface and further defining within said upper surface a first interlocking means, and

b) a forefoot piece ~~selected from a plurality of forefoot pieces having different widths, thicknesses, and impact cushioning characteristics, and each~~ having a dorsally disposed second interlocking means capable of being accommodated within said first interlocking means, wherein said heel piece is structured such that it is capable of correctively supporting said human foot in a neutral orientation, the assembled system and its components having a medial and a lateral side relative to the anatomic orientation of the system.

2. (original) The modular cushioned insole support system of Claim 1 further provided with means for retaining said second interlocking means within said first interlocking means.

3. (original) The modular cushioned insole support system of Claim 2 wherein said means for retaining is an adhesive.

4. (original) The modular cushioned insole support system of Claim 2 wherein said means for retaining is a mechanical fastener.

5. (original) The modular cushioned insole support system of Claim 2 wherein said first part of an interlocking means is a longitudinal channel.

U.S.S.N. 10/086,509
Atty. Docket No. PURP01/0010

Page 3

6. (original) The modular cushioned insole support system of Claim 2 wherein said second interlocking means is a tongue.

7. (original) The modular cushioned insole support system of Claim 1, wherein said forefoot piece has a hardness of 25 to 50 shore C.

8. (original) The modular cushioned insole support system of Claim 1, wherein said forefoot piece is provided with a cushioning means.

9. (original) The modular cushioned insole support system of Claim 8, wherein said cushioning means is selected from the group consisting of gel sacs, air sacs, elastomeric material, spongiform material, and resilient cushioning material.

10. (original) The modular cushioned insole support system of Claim 9, wherein said cushioning means is disposed such that it defines internal apertures that facilitate deformation in response to compressive forces and reformation when those forces are relieved.

11. (currently amended) The modular cushioned insole support system of Claim 8, wherein said cushioning means ~~is further capable of initiating~~ contains ingredients that are inert when isolated from each other and that when combined interact in an exothermic chemical reaction.

12. (original) The modular cushioned insole support system of Claim 1, wherein said heel piece is selected from a plurality of heel pieces each having a different width.

13. (currently amended) The modular cushioned insole support system of Claim 1, wherein said heel piece is selected from a plurality of heel pieces each having a different ~~tertiary~~ cross-sectional geometry.

14. (original) The modular cushioned insole support system of Claim 1, wherein said heel piece has a hardness of 50 to 75 shore C.

U.S.S.N. 10/086,509
Atty. Docket No. PURP01/0010

Page 4

15. (currently amended) The modular cushioned insole support system of Claim [[1,]] 5, wherein said heel piece defines within said channel a centrally disposed aperture capable of accommodating a corresponding protuberance in said ~~tongue~~, forefoot piece, such that in use said protuberance is disposed within said aperture.

16. (original) The modular cushioned insole support system of Claim 1, wherein said system further comprises a heel cup disposed along said lower surface of said heel piece such that said heel piece is partially supported by said heel cup.

17. (original) The modular cushioned insole support system of Claim 16, wherein said heel cup is disposed along said lateral side of said heel piece.

18. (original) The modular cushioned insole support system of Claim 16, wherein said heel cup is disposed along said medial side of said heel piece.

19. (original) The modular cushioned insole support system of Claim 1, wherein said forefoot piece has a perimeter and a centrally disposed foot accommodation means with a transition zone therebetween.

20. (currently amended) The modular cushioned insole support system of Claim 19, wherein said transition zone ~~between~~ is relatively abrupt.

21. (currently amended) The modular cushioned insole support system of Claim 19, wherein said forefoot piece has a first thickness disposed about said ~~foot accommodation means~~ perimeter transitioning to a second thickness in the region of said foot accommodation means.

22. (original) The modular cushioned insole support system of Claim 21, wherein said transition between said first thickness and said second thickness is tapered such that a foot may be cradled within said foot accommodation means.

U.S.S.N. 10/086,509
Atty. Docket No. PURP01/0010

Page 5

23. (currently amended) A modular cushioned insole support system intended for use in connection with footwear, the system being arranged as a kit and comprising:

- a) a plurality of forefoot pieces having different widths, thicknesses, and impact cushioning characteristics, with a durometer range of 25 to 50 shore C, and each defining a first interlocking means
- b) a plurality of heel pieces having a durometer range of 50 to 75 shore C and each defining a second interlocking means and further structured such that each supports said human foot in a position selected from the group consisting of neutral orientation, anti-pronation orientation, and anti-supination orientation,

whereby a consumer selects and assembles one of said forefoot pieces and one of said heel pieces by engaging said first and second interlocking means to form a custom insole.

24. (new) The modular cushioned insole support system of Claim 1, wherein said forefoot piece is selected from a plurality of forefoot pieces having different widths, thicknesses, and impact cushioning characteristics.

25. (new) The modular cushioned insole support system of Claim 1, wherein said forefoot piece is capable of ensuring the proper fit of a narrower foot within a wider footwear that is correctly sized for a wider foot.

26. (new) The modular cushioned insole support system of Claim 1, wherein said heel piece is capable of anti-pronation correction of the orientation of said foot within said footwear to enable neutral orientation of said foot within said footwear..

27. (new) The modular cushioned insole support system of Claim 1, wherein said heel piece is capable of anti-supination correction of the orientation of said foot within said footwear to enable neutral orientation of said foot within said footwear.

U.S.S.N. 10/086,509
Atty. Docket No. PURP01/0010

Page 6

28. (new) The modular cushioned insole support system of Claim 1, wherein said heel piece is selected from a group of heel pieces having different said thicknesses, such that different leg lengths may be corrected for.

29. (new) A modular cushioned insole support system intended for use in the interior of footwear, the system comprising:

a) a heel piece having an upper and lower surface and further defining within said upper surface a first interlocking means, and

b) a forefoot piece having a dorsally disposed second interlocking means capable of being accommodated within said first interlocking means, such that said forefoot piece does not extend the full length of said footwear interior and does not extend the full width of said footwear interior throughout the length of said forefoot piece.

the assembled system and its components having a medial and a lateral side relative to the anatomic orientation of the system.